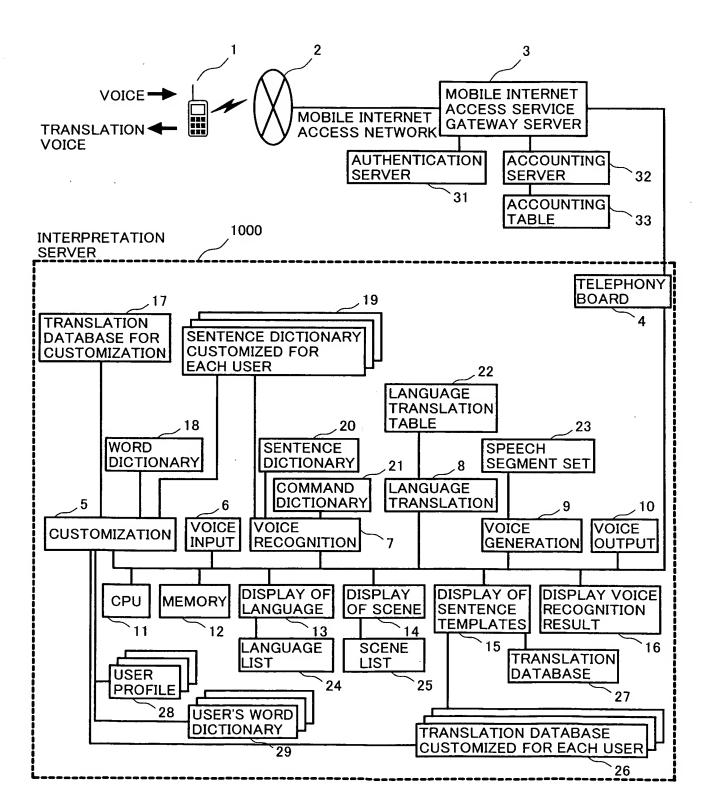
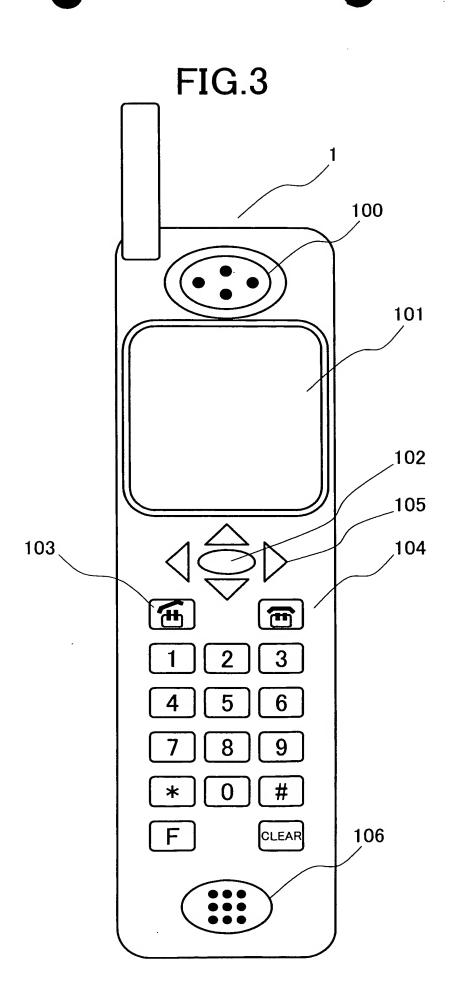
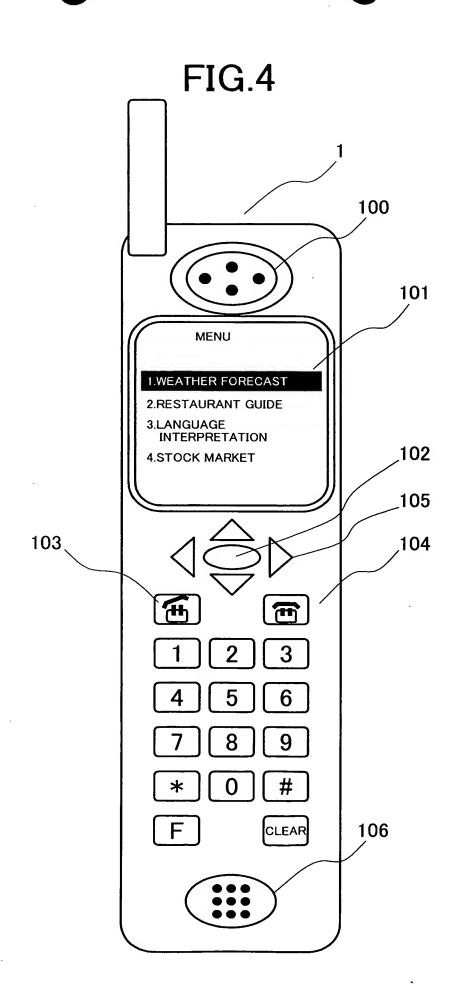
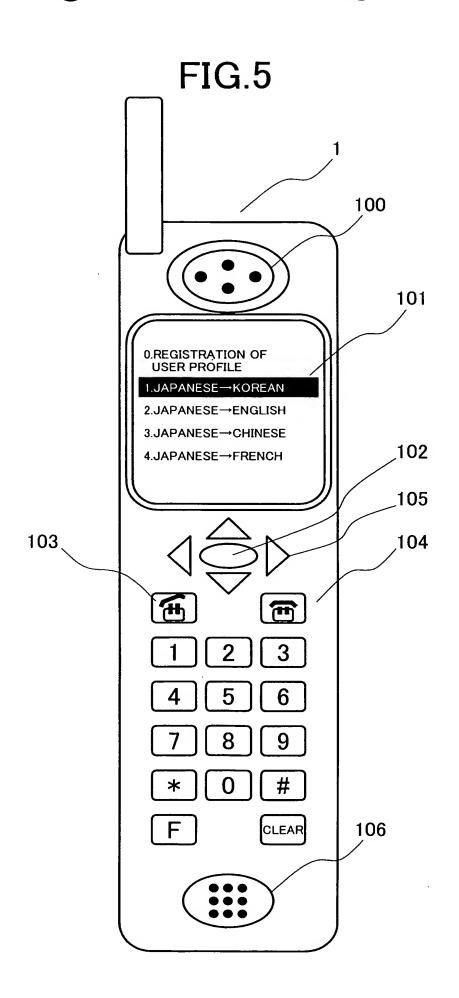
FIG.1

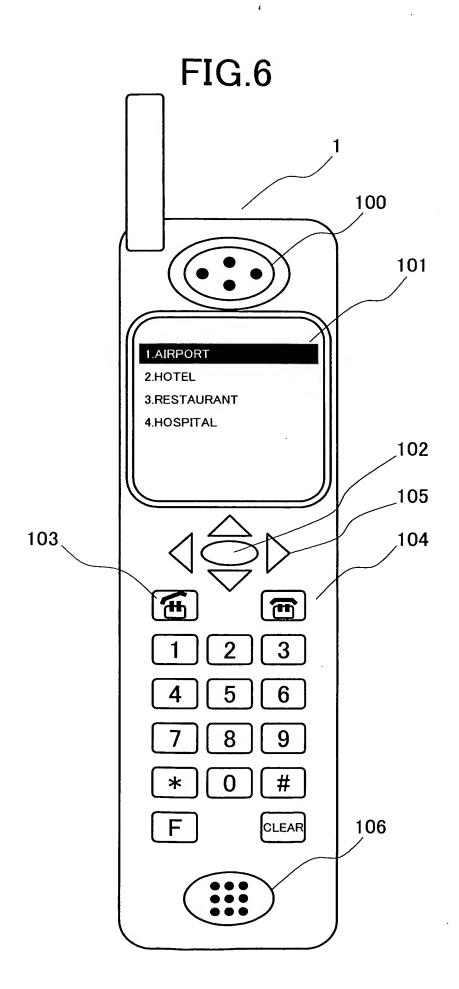


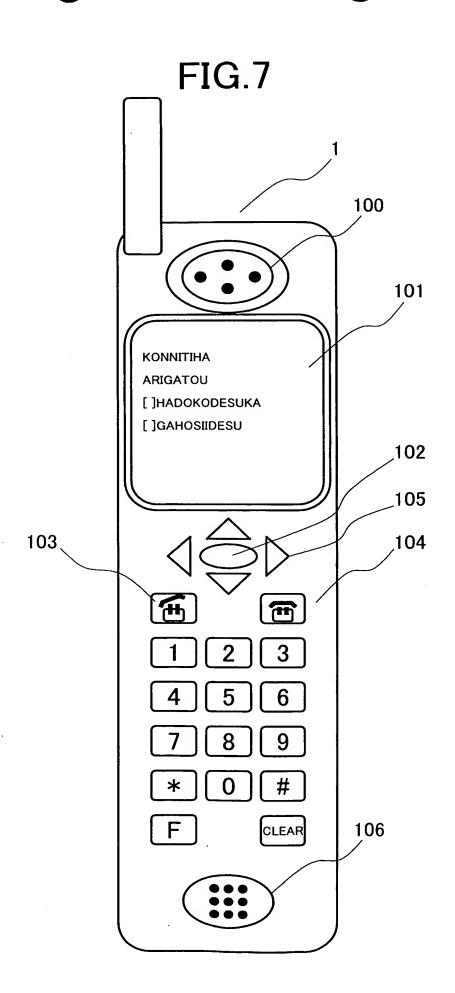
201	WAVE	
202	CSTRING	
203	JAPANESE	
204	ICNT	-
205	RECOGS(1)	
	RECOGPNUM(1)	
	RECOGSNUM(1)	
	:	
	RECOGS(N)	
	RECOGPNUM(N)	
	RECOGSNUM(N)	
206	RESULT	
207	SYNWAVE	
208	JCNT	
209	LANG	
210	SCENE	
211	BSENTENCE	
212	CSENTENCE	
213	PCAND	
214	SCAND	
215	INDEX	
	:	·

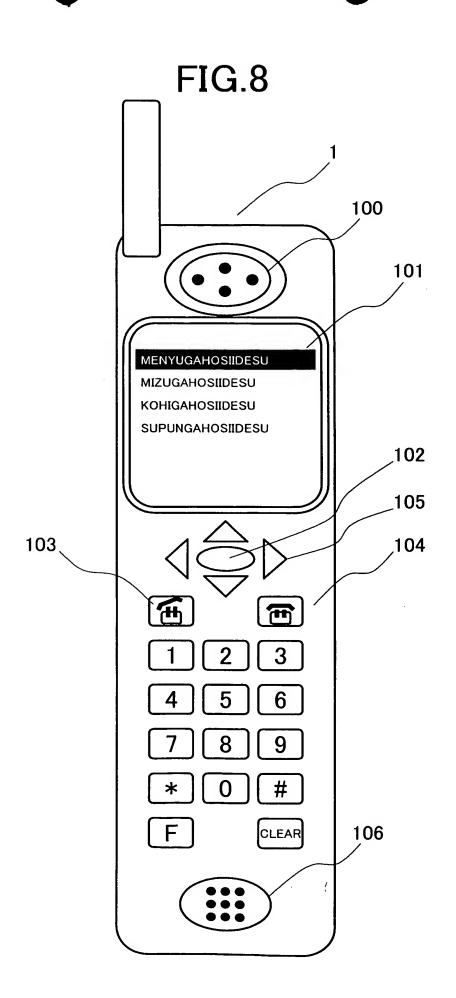












		•••	••					•
2213	TRANSLATION /	, 5	•	I'D LIKE TO HAVE A GLASS OF WATER.	CAN I SEE THE MENU?	I'D LIKE TO HAVE A CUP OF COFFEE.	I'D LIKE TO HAVE A SPOON.	
2212		-		:	÷	:	:	
2211	SENTENCE	NUMBER		3004001	3004002	3004003	3004004	
.,	SENTENCE	TEMPLATE NUMBER NUMBER		3004	3004	3004	3004	
				2201	2202	2203	2204	

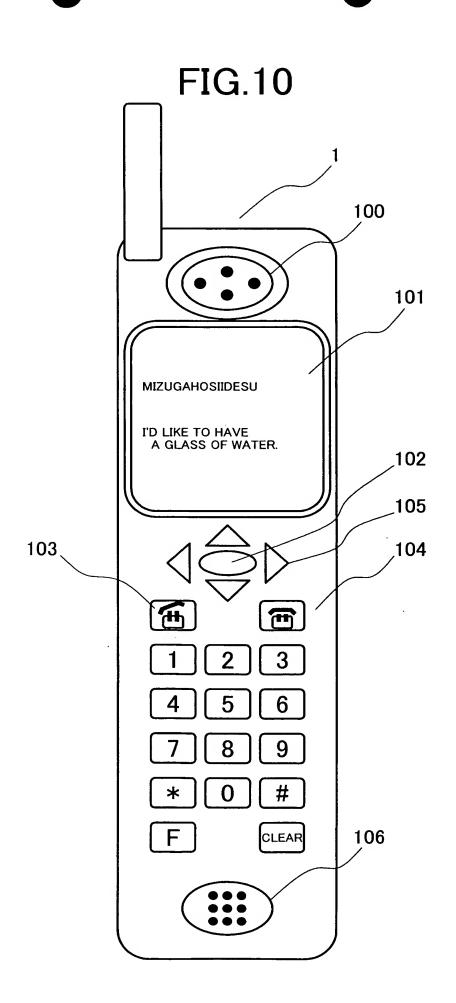
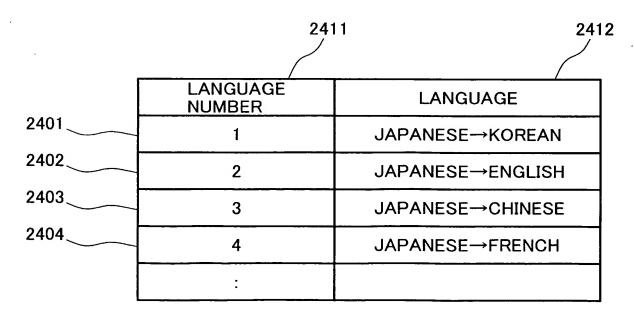


FIG.11

	331	1 3312
	USER ID	CHARGE
	:	:
3301	1234	100
3302	1235	0
3303	1236	300
3304	1237	850
	:	:

FIG.12

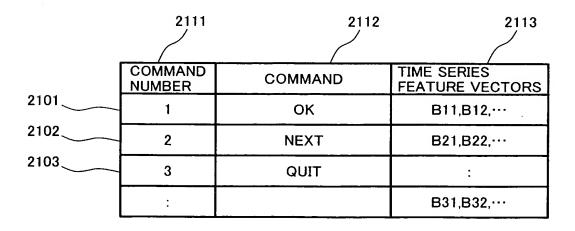


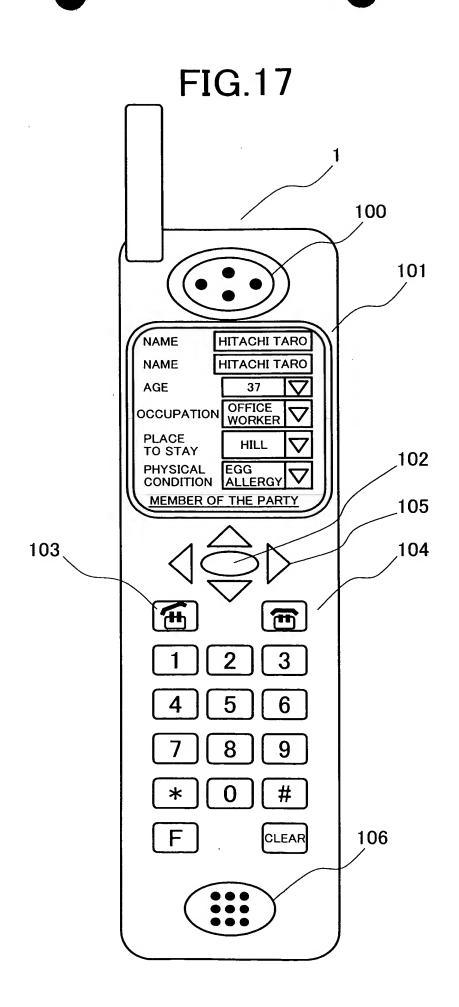
	251	2512
	SCENE NUMBER	SCENE
2501	1	AIRPORT
2502	2	HOTEL
2503	3	RESTAURANT
2504	4	HOSPITAL

FIG.14

	271	2712	2713
	SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE
•	1	1001	[]HADOKODESUKA?
	:	:	
2701	3	3001	KONNITIHA
2702	3	3002	ARIGATOU
2703	3	3003	[]HADOKODESUKA?
2704	3	3004	[]GAHOSIIDESU
2705	3	3005	[]HAARIMASUKA?
	÷	:	

	2011	2012	2013	2014
	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES FEATURE VECTORS
2001	1001	1001001	KONNITIHA	A11,A12,···
2002	1002	1001001	ARIGATOU	A21,A22,···
	:	:	:	:
2003	3004	3004001	MIZUGAHOSIIDESU	A31,A32,···
2004	3004	3004002	MENYUGAHOSIIDESU	A41,A42,···
2005	3004	3004003	KOHIGAHOSIIDESU	A51,A52,···
2006	3004	3004004	SUPUNGAHOSIIDESU	A61,A62,···
	:	:	:	:





2811	2812	2813	2814	2815
NAME	HITACHI	TARO	HITACHI	TARO
AGE/SEX	37	MALE		
OCCUPATION	OFFICE WORKER			
DESTINATION	MIAMI			
PLACE TO STAY	FEBRUARY 12	FEBRUARY 17	HILL	HILL
FLIGHT NUMBER			·	
PHYSICAL CONDITION	EGG ALLERGY			
FOOD LIST	STONE CRAB	OYSTER	KEY LIME PIE	
SHOPPING LIST				
:				
MEMBER OF THE PARTY	2			
:				
NAME	HITACHI	KOTARO		
AGE/SEX	11 MONTH	MALE		

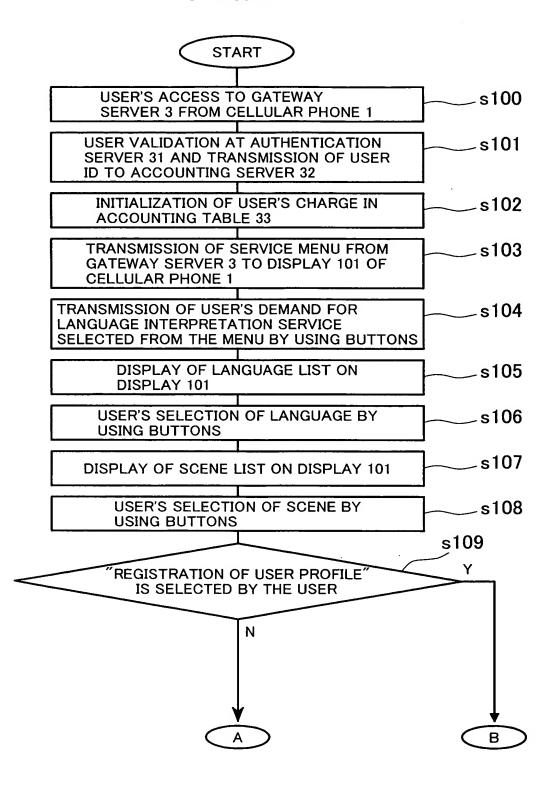
SENTENCE TEMPLATE NUMBER 1001	SENTENCE SLOT THADOKO (LOCATION) HA[]NI IKIMASUKA?	1714 1715 SELECTION CONDITION T FOR SENTENCE TEMPLATE TON>	TRANSLATION TEMPLATE WHERE IS []? DOES THIS BUS GO TO []?	GRANMATICAL INFORMATION FOR SLOTS	PRONUNCIATION INFORMATION FOR SENTENCE TEMPLATE []HADOKO DESUKA? KONOBASU HA[]HE IKIMASUKA?
[]GAHOSII <f< td=""><td>⟨FOOD⟩</td><td></td><td>ľD LIKE [].</td><td>PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN</td><td>[]GAHOSII DESU</td></f<>	⟨FOOD⟩		ľD LIKE [].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[]GAHOSII DESU
[]HA ARIMASUKA?	<f00d></f00d>		DO YOU HAVE []?	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[]HA ARIMASUKA?
[]ARERUGI <fc DESU</fc 	⟨F00D⟩	PHYSICAL CONDITION <allergy< td=""><td>I'M ALLERGIC TO [].</td><td>PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN</td><td>[JARERUGI DESU</td></allergy<>	I'M ALLERGIC TO [].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[JARERUGI DESU
[]GA HIKITUKEWO OKOSIMASITA		MEMBER OF THE PARTY <infant< td=""><td>[] HAS GONE INTO CONVULSIONS.</td><td></td><td>[]GA HIKITUKEWO OKOSIMASITA</td></infant<>	[] HAS GONE INTO CONVULSIONS.		[]GA HIKITUKEWO OKOSIMASITA
KOUKETUATU DESU		PHYSICAL CONDITION < HIGH BLOOD PRESSURE.	I HAVE HIGH BLOOD PRESSURE.		KOUKETUATU DESU

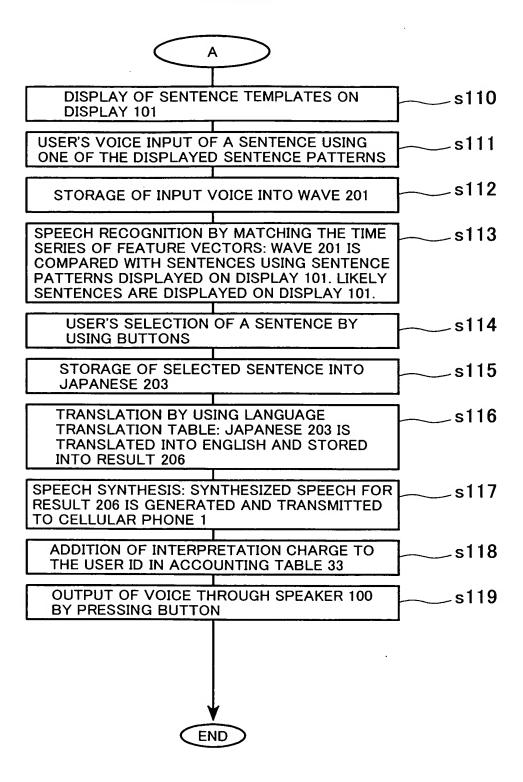
FIG.20	1811	1812	1813	1814	1815	1816	1817	1818
	KAKI	KAKI	KAKI	COMMON	(FOOD) (LIVING THING)	OYSTER	XCISTXER	COMMON NOUN; COUNTABLE; -S; BEGINING WITH VOWEL
	HIRU HOTERU	HIRU HOTERU	HIRU HOTERU	PROPER NOUN	<нотег <i>></i>	HILL HOTEL	HILU HOUTEL	PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT
	SUTON KURABU	SUTON KURABU	SUTON KURABU	COMMON	<food> <living THING></living </food>	STONE CRAB	STOUN	COMMON NOUN; COUNTABLE; -S; BEGINING WITH CONSONANT
··· 								
	⟨HOTEL⟩			CATEGORY	<place> <building> <agency></agency></building></place>			
	⟨F00D⟩			CATEGORY	<concrete OBJECT></concrete 			

2918			<u></u> щ		<u> </u>			
29	O III O		PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT		COMMON NOUN; COUNTABLE; -S; BEGINING WITH CONSONANT			
	COMMON NOUN; COUNTABLE; -S; BEGINING WITH VOWEL		PROPER NOUN: UNCOUNTABLE DEFINITE ARTIC CONSONANT		ABLE ABLE SININ			
	MMC OUNT BEC TH V		OPE ICOU FINITIONS		MMC OUNT BEC TH C			
7			E 2 E 2		000 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
2917	XCISTXER		TEL		N 88			
	XCIS	••	HILU HOUTEL		STOUN KRAEB			
2916	ER		_1		ш			
	OYSTER		HILL HOTEL		STONE CRAB			
2915	0	••		•••	ι σ O	••	^	'n
29	65¢				۵۵ _۵		DING CY>	SRET STS
	<food></food>		⟨HOTEL⟩		<food> <living THING></living </food>		<place> <building> <agency></agency></building></place>	<concrete OBJECT></concrete
2914		••		••	V V F	••		
29	NON _		H _		NON _		GOR	GOR
	COMMON		PROPER NOUN		COMMON		CATEGORY	CATEGORY
2913								
20	KAKI		HIRU HOTERU		SUTON KURABU			
. 2	\$					••		<u>-</u>
2912		·	HIRU HOTERU		SUTON KURABU			
	KAKI		표 다		TUS RUX			
2911			2		Z			â
	KAKI		HIRU HOTERU		SUTON KURABU		(HOTEL)	⟨F00D⟩
	<u> </u>	I	1	I	[0) X	1	<u> </u>	<u> </u>
FIG.21								
<u>9</u>	·							

	261	1 2612	2613	2614
	SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE	SLOT
2601	1	1001	[]HADOKODESUKA?	HILL HOTEL
2602	1	1002	KONOBASUHA[]NI IKIMASUKA?	HILL HOTEL
	:	:		
2603	3	3004	[]GAHOSIIDESU	STONE CRAB; OYSTER
2604	3	3005	[]HAARIMASUKA?	STONE CRAB; OYSTER
2605	3	3006	[]ARERUGIDESU	EGG
	:		:	
2606	4	4003	[]GAHIKITUKEWO OKOSIMASITA	SON
	:			

	1911	1912	1913	1914
	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES OF FEATURE VECTORS
1901	1001	1001001	HIRUHOTERUHA DOKODESUKA?	A11,A12,···
1902	1002	1002001	KONOBASUHAHIRU HOTERUNIIKIMASUKA?	A21,A22,···
	•	•	:	:
1903	3005	3005001	SUTONKURABUHA ARIMASUKA?	A31,A32,···
1904	3005	3005002	KAKIHAARIMASUKA?	A41,A42,···
	3006	3006001	TAMAGOARERUGIDESU	A51,A52,···
1905	:	:	:	:
1906	4003	4003001	MUSUKOGAHIKITUKEWO OKOSIMASITA	A61,A62,···





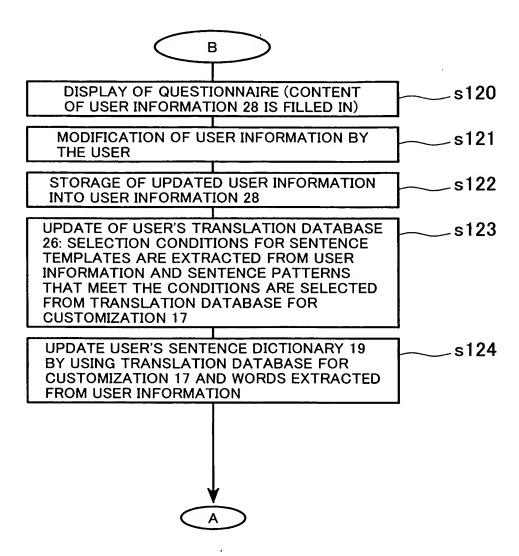


FIG.27

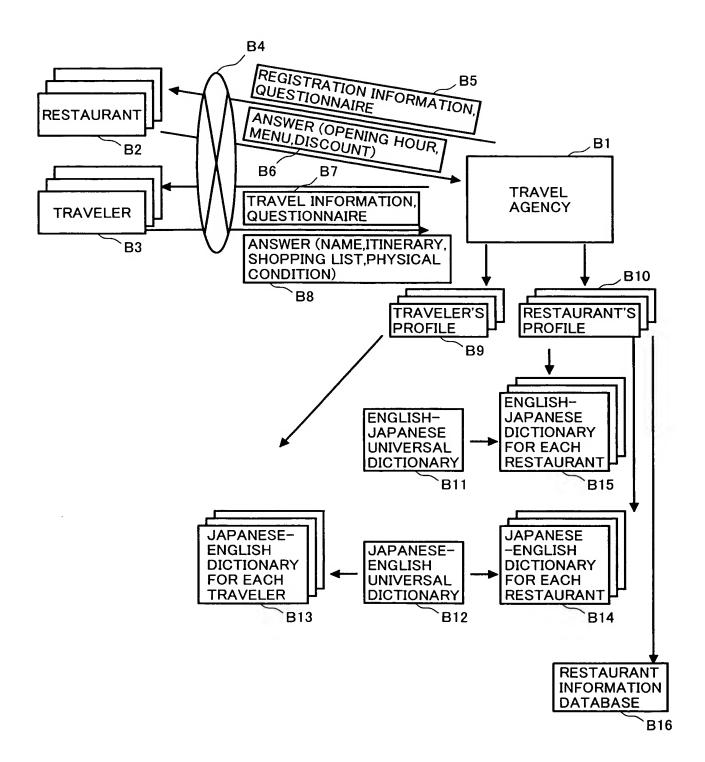


FIG.28

